

RAW SEQUENCE LISTING

DATE: 08/06/2001

PATENT APPLICATION: US/09/766,889A

TIME: 11:21:03

Input Set : A:\L0461-7104 revised sequence listing.txt

Output Set: N:\CRF3\08062001\I766889A.raw

3 <110> APPLICANT: Luiten, Rosalie
4 Boon-Falleur, Thierry
5 van der Bruggen, Pierre
6 Stroobant, Vincent
7 Demotte, Nathalie
8 Schultz, Erwin

10 <120> TITLE OF INVENTION: MAGE ANTIGENIC PEPTIDES WHICH BIND HLA-B35 AND HLA-B44
12 <130> FILE REFERENCE: L0461/7104
14 <140> CURRENT APPLICATION NUMBER: US 09/766,889A
16 <141> CURRENT FILING DATE: 2001-01-19
18 <150> PRIOR APPLICATION NUMBER: US 60/177,242
20 <151> PRIOR FILING DATE: 2000-01-20
22 <150> PRIOR APPLICATION NUMBER: US 60/243,212
24 <151> PRIOR FILING DATE: 2000-10-25
26 <160> NUMBER OF SEQ ID NOS: 59
29 <170> SOFTWARE: FastSEQ for Windows Version 3.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 930
33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
36 <400> SEQUENCE: 1

37	atgtctcttg	agcagaggag	tctgcactgc	aagcctgagg	aagcccttga	ggcccaacaa	60
38	gaggccctgg	gcctggtgtg	tgtgcaggct	gccacctcct	cctcctctcc	tctggtcctg	120
39	ggcaccctgg	aggaggtgcc	cactgctggg	tcaacagatc	ctccccagag	tcctcaggga	180
40	gcctccgcct	ttccaactac	catcaacttc	actcgacaga	ggcaaccacg	tgagggttcc	240
41	agcagccgtg	aagaggaggg	gccaagcacc	tcttgtatcc	tggagtcctt	gttccgagca	300
42	gtaatcacta	agaaggtggc	tgatttggtt	ggttttctgc	tcctcaaata	tcgagccagg	360
43	gagccagtca	caaaggcaga	aatgctggag	agtgtcatca	aaaattacaa	gcactgtttt	420
44	cctgagatct	tcggcaaaagc	ctctgagtcc	ttgcagctgg	tctttggcat	tgacgtgaag	480
45	gaagcagacc	ccaccggcca	ctcctatgtc	cttgtcacct	gcctaggtct	ctcctatgat	540
46	ggcctgctgg	gtgataatca	gatcatgccc	aagacaggct	tcctgataat	tgtcctggtc	600
47	atgattgcaa	tggagggcgg	ccatgctcct	gaggaggaaa	tctggggagga	gctgagtgtg	660
48	atggaggtgt	atgatgggag	ggagcacagt	gcctatgggg	agcccaggaa	gctgctcacc	720
49	caagatttgg	tgcaggaaaa	gtacctggag	taccggcagg	tgccggacag	tgatcccgcg	780
50	cgctatgagt	tctgtggggg	tccaagggcc	ctcgctgaaa	ccagctatgt	gaaagtcctt	840
51	gagtatgtga	tcaaggctcag	tgcaagagtt	cgctttttct	tcccatccct	gcgtgaagca	900
52	gctttgagag	aggaggaaga	gggagttctga				930

54 <210> SEQ ID NO: 2
55 <211> LENGTH: 309
56 <212> TYPE: PRT
57 <213> ORGANISM: Homo sapiens
59 <400> SEQUENCE: 2

60	Met	Ser	Leu	Glu	Gln	Arg	Ser	Leu	His	Cys	Lys	Pro	Glu	Glu	Ala	Leu
61	1				5					10					15	
62	Glu	Ala	Gln	Gln	Glu	Ala	Leu	Gly	Leu	Val	Cys	Val	Gln	Ala	Ala	Thr
63				20					25					30		
64	Ser	Ser	Ser	Ser	Pro	Leu	Val	Leu	Gly	Thr	Leu	Glu	Glu	Val	Pro	Thr

ENTERED
ENTERED

RAW SEQUENCE LISTING

DATE: 08/06/2001

PATENT APPLICATION: US/09/766,889A

TIME: 11:21:03

Input Set : A:\L0461-7104 revised sequence listing.txt

Output Set: N:\CRF3\08062001\I766889A.raw

```

65          35          40          45
66 Ala Gly Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe
67      50          55          60
68 Pro Thr Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser
69 65          70          75          80
70 Ser Ser Arg Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu Glu Ser
71      85          90          95
72 Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe
73      100          105          110
74 Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met
75      115          120          125
76 Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro Glu Ile Phe
77      130          135          140
78 Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys
79 145          150          155          160
80 Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val Thr Cys Leu Gly
81      165          170          175
82 Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Thr
83      180          185          190
84 Gly Phe Leu Ile Ile Val Leu Val Met Ile Ala Met Glu Gly Gly His
85      195          200          205
86 Ala Pro Glu Glu Glu Ile Trp Glu Glu Leu Ser Val Met Glu Val Tyr
87      210          215          220
88 Asp Gly Arg Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu Thr
89 225          230          235          240
90 Gln Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg Gln Val Pro Asp
91      245          250          255
92 Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ala
93      260          265          270
94 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala
95      275          280          285
96 Arg Val Arg Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu
97      290          295          300
98 Glu Glu Glu Gly Val
99 305

```

```

101 <210> SEQ ID NO: 3
102 <211> LENGTH: 31
103 <212> TYPE: DNA
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 3
107 aaactgcaga tgtctcttga gcagaggagt c
109 <210> SEQ ID NO: 4
110 <211> LENGTH: 30
111 <212> TYPE: DNA
112 <213> ORGANISM: Homo sapiens
114 <400> SEQUENCE: 4
115 aaactgcagt cagactccct cttcctcctc
117 <210> SEQ ID NO: 5
118 <211> LENGTH: 12

```

31

30

RAW SEQUENCE LISTING

DATE: 08/06/2001

PATENT APPLICATION: US/09/766,889A

TIME: 11:21:03

Input Set : A:\L0461-7104 revised sequence listing.txt

Output Set: N:\CRF3\08062001\I766889A.raw

```

119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 5
123   Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val
124     1             5             10
126 <210> SEQ ID NO: 6
127 <211> LENGTH: 10
128 <212> TYPE: PRT
129 <213> ORGANISM: Homo sapiens
131 <400> SEQUENCE: 6
132   Asp Pro Thr Gly His Ser Tyr Val Leu Val
133     1             5             10
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 9
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens
140 <400> SEQUENCE: 7
141   Asp Pro Thr Gly His Ser Tyr Val Leu
142     1             5
144 <210> SEQ ID NO: 8
145 <211> LENGTH: 9
146 <212> TYPE: PRT
147 <213> ORGANISM: Homo sapiens
149 <400> SEQUENCE: 8
150   Glu Ala Asp Pro Thr Gly His Ser Tyr
151     1             5
153 <210> SEQ ID NO: 9
154 <211> LENGTH: 10
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 9
159   Lys Glu Ala Asp Pro Thr Gly His Ser Tyr
160     1             5             10
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 8
164 <212> TYPE: PRT
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 10
168   Ala Asp Pro Thr Gly His Ser Tyr
169     1             5
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 72
173 <212> TYPE: DNA
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 11
177   atgtctgagt ccttgacagt ggtctttggc attgacgtga aggaagcaga cccaccggc
178   cactcctatt ga
180 <210> SEQ ID NO: 12
181 <211> LENGTH: 23

```

60
72

RAW SEQUENCE LISTING

DATE: 08/06/2001

PATENT APPLICATION: US/09/766,889A

TIME: 11:21:03

Input Set : A:\L0461-7104 revised sequence listing.txt

Output Set: N:\CRF3\08062001\I766889A.raw

```

182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 12
186 Met Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys Glu Ala
187   1           5           10           15
188 Asp Pro Thr Gly His Ser Tyr
189           20
191 <210> SEQ ID NO: 13
192 <211> LENGTH: 33
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 13
197 atggaagcag accccaccgg ccactcctat tga
199 <210> SEQ ID NO: 14
200 <211> LENGTH: 10
201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 14
205 Met Glu Ala Asp Pro Thr Gly His Ser Tyr
206   1           5           10
208 <210> SEQ ID NO: 15
209 <211> LENGTH: 30
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 15
214 atggcagacc ccaccggcca ctcctattga
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 9
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 16
222 Met Ala Asp Pro Thr Gly His Ser Tyr
223   1           5
225 <210> SEQ ID NO: 17
226 <211> LENGTH: 9
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 17
231 Ser Ala Tyr Gly Glu Pro Arg Lys Leu
232   1           5
234 <210> SEQ ID NO: 18
235 <211> LENGTH: 9
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 18
240 Glu Val Asp Pro Ile Gly His Leu Tyr
241   1           5
243 <210> SEQ ID NO: 19
244 <211> LENGTH: 9

```

RAW SEQUENCE LISTING

DATE: 08/06/2001

PATENT APPLICATION: US/09/766,889A

TIME: 11:21:03

Input Set : A:\L0461-7104 revised sequence listing.txt

Output Set: N:\CRF3\08062001\I766889A.raw

245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 19
249 Phe Leu Trp Gly Pro Arg Ala Leu Val
250 1 5
252 <210> SEQ ID NO: 20
253 <211> LENGTH: 10
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens
257 <400> SEQUENCE: 20
258 Met Glu Val Asp Pro Ile Gly His Leu Tyr
259 1 5 10
261 <210> SEQ ID NO: 21
262 <211> LENGTH: 9
263 <212> TYPE: PRT
264 <213> ORGANISM: Homo sapiens
266 <400> SEQUENCE: 21
267 Ala Ala Arg Ala Val Phe Leu Ala Leu
268 1 5
270 <210> SEQ ID NO: 22
271 <211> LENGTH: 8
272 <212> TYPE: PRT
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 22
276 Tyr Arg Pro Arg Pro Arg Arg Tyr
277 1 5
279 <210> SEQ ID NO: 23
280 <211> LENGTH: 10
281 <212> TYPE: PRT
282 <213> ORGANISM: Homo sapiens
284 <400> SEQUENCE: 23
285 Ser Pro Ser Ser Asn Arg Ile Arg Asn Thr
286 1 5 10
288 <210> SEQ ID NO: 24
289 <211> LENGTH: 9
290 <212> TYPE: PRT
291 <213> ORGANISM: Homo sapiens
293 <400> SEQUENCE: 24
294 Val Leu Pro Asp Val Phe Ile Arg Cys
295 1 5
297 <210> SEQ ID NO: 25
298 <211> LENGTH: 10
299 <212> TYPE: PRT
300 <213> ORGANISM: Homo sapiens
302 <400> SEQUENCE: 25
303 Val Leu Pro Asp Val Phe Ile Arg Cys Val
304 1 5 10
306 <210> SEQ ID NO: 26
307 <211> LENGTH: 9

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 08/06/2001

PATENT APPLICATION: US/09/766,889A

TIME: 11:21:04

Input Set : A:\L0461-7104 revised sequence listing.txt

Output Set: N:\CRF3\08062001\I766889A.raw

L:560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53

L:567 M:283 W: Missing Blank Line separator, <400> field identifier